# This Page Is Inserted by IFW Operations and is not a part of the Official Record

### BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.



#### United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/058,301		01/30/2002	Kaoru Katoh	053466-0321	7349
22428	7590	04/09/2003			
FOLEY A	ND LAR	DNER	EXAMINER		
SUITE 500 3000 K STR	EET NW	,	BAHTA, ABRAHAM		
WASHINGTON, DC 20007				ART UNIT	PAPER NUMBER
				1775	Ø
				DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

		q					
	Application No.	Applicant(s)					
	10/058,301	KATOH ET AL.					
Office Action Summary	Examin r	Art Unit					
	Abraham Bahta	1775					
The MAILING DATE of this communication app ars on the cover she t with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 30 day MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status							
1) Responsive to communication(s) filed on 10 M	<u>flarch 2003</u> .						
2a) This action is <b>FINAL</b> . 2b) ☐ Thi	is action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>							
4) Claim(s) 1-6 is/are pending in the application.							
4a) Of the above claim(s) 5 and 6 is/are withdra	awn from consideration.						
5) Claim(s) is/are allowed.	) ☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-4</u> is/are rejected.	6)⊠ Claim(s) <u>1-4</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner		minor					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abovance. See 37 CER 1.85(a)							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.  15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3</li> </ol>	5) Notice of Informal F	r (PTO-413) Paper No(s) Patent Application (PTO-152)					

Art Unit: 1775

#### DETAILED ACTION

Applicant's election of Group I (claims 1-4) in Paper No. 5 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States. Claims 1-2 and 4 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaneko et al (USP 5,218,757).

Kaneko teaches a thin carbon rod or microelectrode (col. 5, line 39-45) comprising crystalline carbon (col. 5, lines 23-30) and a glass-like matter produced by carbonizing an organic material. See col. 6, lines 27-31. In addition, the reference teaches the composite carbon material may have an oriented system such that end surfaces of highly developed graphite crystals are arranged to be perpendicular to the electrode surface. See col. 6, lines 32-36.

Regarding claim 4, the reference teaches in the tapered carbon microelectrode, the diameter of the thick end portion of the tapered carbon thin rod may be 5mm-0.lmm and that of

Application/Control Number: 10/058,301

Art Unit: 1775

the thin end portion may be 0.1 mm or less and according to PROKON-METRIC

CONVERSION 0.1mm is 100 micrometer.

#### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3 is are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaneko '757.

As discussed above, Kaneko teaches applicant's claimed invention except the amount of the crystalline carbon as recited in claim 3; however, it would have been obvious to one of ordinary skill in the art to select an appropriate amount of the crystalline powder. Motivation for such modification is provided at col. 6, lines 45-57 of Kaneko which teaches the amount of the crystalline carbon to be compounded varies depending on the type of the organic binder which produces the glass-like matter and the diameter of the electrode desired and the ultimate use of the product.

Page 3

Art Unit: 1775

Any inquiry concerning this communication should be directed to Abraham Bahta at telephone number (703) 308-4412.

The Examiner can normally be reached Monday-Friday from 11:30 AM -8:00 PM (EST).

If attempts to reach the Examiner by telephone are unsuccessful, the examiner's supervisor Deborah, Jones, can be reached on (703) 308-3822.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

. Bahta

04/01/03

DEBÖRÄH JONES SUPERVISORY PATENT EXAMINER